

552, 272

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau(43) International Publication Date  
21 October 2004 (21.10.2004)

PCT

(10) International Publication Number  
**WO 2004/089552 A2**(51) International Patent Classification<sup>7</sup>: **B05B 5/00**

(21) International Application Number:

PCT/GB2004/001431

(22) International Filing Date: 1 April 2004 (01.04.2004)

(25) Filing Language: English

(26) Publication Language: English

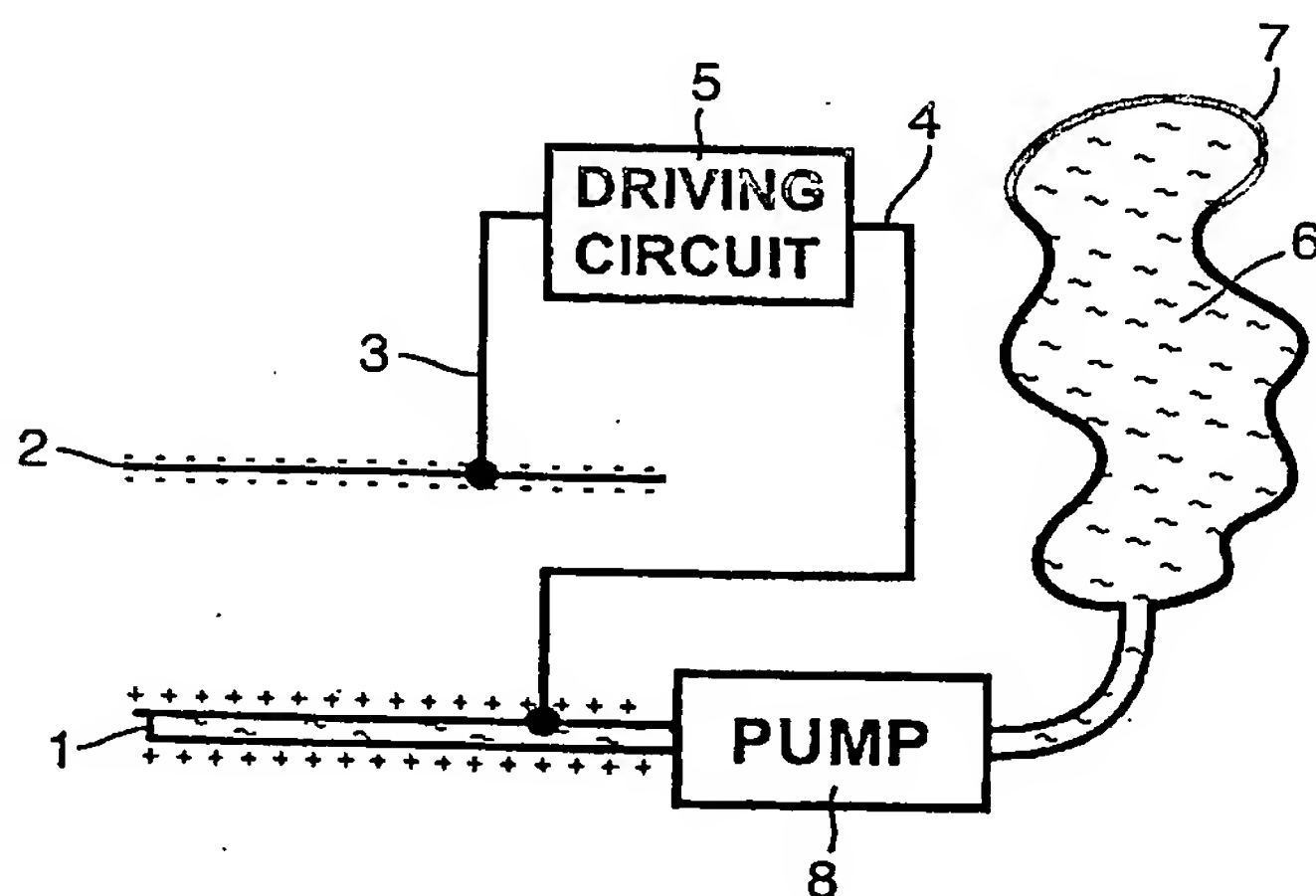
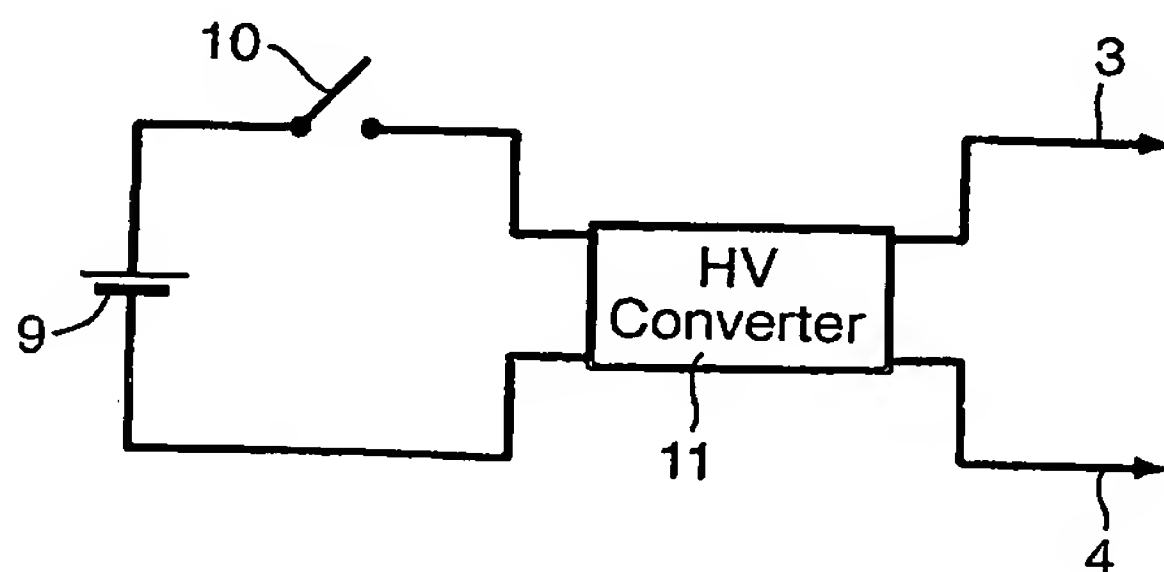
(30) Priority Data:  
0308021.5 7 April 2003 (07.04.2003) GB(71) Applicant (for all designated States except US): AER-  
STREAM TECHNOLOGY LIMITED [GB/GB]; Mul-  
berry House, Osborne Road, Wokingham RG40 1TL (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): PIRRIE, Alastair,  
Bruce [GB/GB]; 91 Plantation Road, Oxford OX2 6JE  
(GB).(74) Agent: GILL JENNINGS & EVERY; Broadgate House,  
7 Eldon Street, London EC2M 7LH (GB).(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-  
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,  
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,

[Continued on next page]

(54) Title: SPRAY ELECTRODE

(57) Abstract: An electrostatic spraying device  
comprises a capillary spray electrode having a spraying  
end, a reference electrode, and a reservoir in fluid  
communication with the spray electrode. In use, the  
electrodes are connected across a generator in order to  
establish an electric field between the electrodes and  
cause fluid in the reservoir to be sprayed from the spray  
electrode. The spray electrode has a focus that defines  
a point at which the electric field is focussed on the  
spraying end.

WO 2004/089552 A2



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

- *without international search report and to be republished upon receipt of that report*